

M1113/XM1113 HMMWV Expanded Capacity

The M1113 HMMWV has a gross vehicle weight of 11,500 lbs. TACOM developed the M1113 Expanded Capacity Vehicle (ECV), a HMMWV shelter carrier with strengthened suspension, drive train, and braking systems. As a result, the available vehicle payload is increased to 5,150 lbs, more than enough to handle projected CECOM load requirements.

The S-788 Lightweight Multipurpose Shelters (LMS) mounted on the original M1037 and M1097 HMMWVs cannot carry a fully configured shelter (weight rating = 3,300 lbs) because the combined shelter/crew/trailer pintle load weights exceed available HMMWV payload (4,400 lbs). As a result, materiel developers either remove excess equipment from their shelters and/or add additional HMMWV "chase vehicles" to carry the additional equipment. This situation came to a head in one particular case where the system exceeded the HMMWV rating by 30 lbs but was refused an overload waiver by DCSOPS. As an alternative to removing mission equipment, materiel developers should consider replacing the M1037/M1097 with a prime mover with a higher rated payload- the M1113 Expanded Capacity Vehicle (ECV).



M1113					
Curb Weight (Note 1)	6,350 lbs.	2,858 kg.	Accel. (Min.):		
Payload (Notes 1&2)	5,150 lbs.	2,317 kg.	0-30 mph (48 kmph)	8.4 sec.	8.4 sec.
Gross Vehicle Weight (GVW)	11,500 lbs.	5,216 kg.	0-50 mph (80 kmph)	26.1 sec.	26.1 sec.
Gross Axle Weight Rating:			Maximum Towed Load	4,200 lb.	1,890 kg.
Front	5,750 lbs.	2,610 kg.	Cruising Range (Minimum)	275 mi.	443 km.
Rear	7,000 lbs.	3,176 kg.	CGX At Curb Weight (Note 3)	60.4 in.	1,513 mm.
Length (Note 1)	196.5 in.	5.00 m.	CGY At Curb Weight (Note 3)	.06 in.	0.05 mm.
Height (w/o weapons)	74 in.	1.88 m.	CGZ At Curb Weight (Note 3)	29.7 in.	76 mm.
Min. Reducible Weight	56 in.	1.42 m.	Spring Rate: Front	1750 lb./in.	306 N/mm
Reduced Shipping Weight			Rear	3,000 lb./in.	525 N/mm
(w/o slippers)	548 ft. ³	15.5 m. ³	Troop Seating Capacity		1+1
Engine: TYPE - 6.5L Turbocharged Diesel, EPA Compliance: HORSEPOWER (®3,400 RPM): 190 HP (142 KW) TORQUE (®1,700 RPM): 380 lb. ft. (515 N.m) COMPRESSION RATIO: 21:5.1 Axles: Hoonid with a ratio of 3.08:1					